

FES8AT - FES8JT

PRV : 50 - 600 Volts
Io : 8 Ampere

FEATURES :

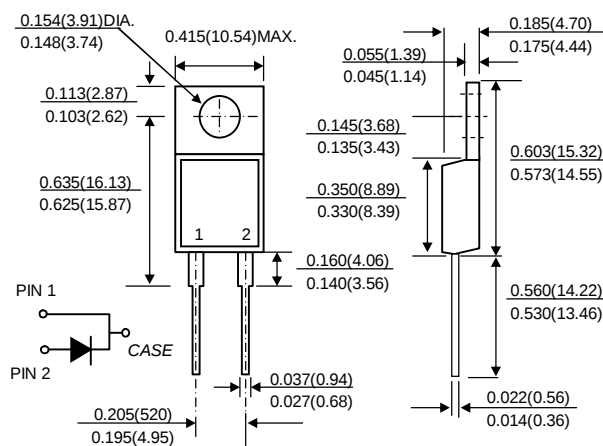
- * High current capability
- * High surge current capability
- * Low leakage, high voltage
- * Glass passivated chip junction
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)

Ultrafast Plastic Rectifiers

TO-220AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

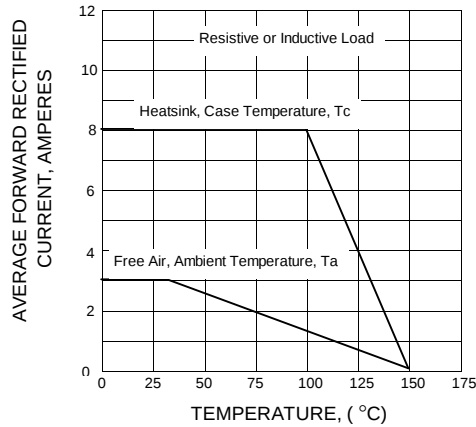
RATING	SYMBOL	FES 8AT	FES 8BT	FES 8CT	FES 8DT	FES 8FT	FES 8GT	FES 8HT	FES 8JT	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	V
Maximum Average Forward Current, Tc = 100°C	IF(AV)	8.0								A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at Tc = 100°C	IFSM	200				125				A
Maximum Instantaneous Forward Voltage at IF = 8 A	VF	0.95				1.3		1.5		V
Maximum Reverse Current at Tc = 25 °C	IR	10								μA
Rated DC Blocking Voltage Tc = 100 °C	IR(H)	500								μA
Maximum Reverse Recovery Time (Note 1)	Trr	35				50				ns
Typical junction capacitance at 4V, 1MHz	Cj	85						50		pF
Maximum Thermal Resistance, Junction to Case	RθJC	2.2								°C/W
Operating storage and temperature range	TJ, TSTG	- 55 to + 150								°C

Note :

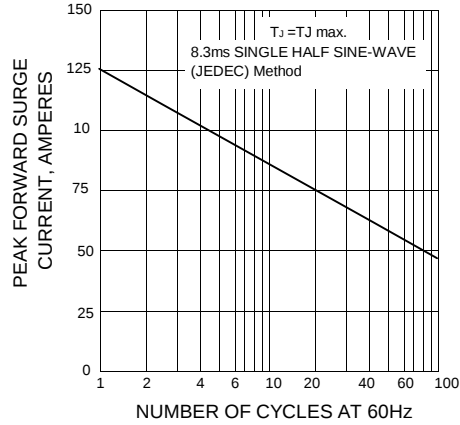
(1) Reverse Recovery Test Conditions : IF = 0.5A, IR = 1A ; Irr = 0.25 A

RATING AND CHARACTERISTIC CURVES (FES8AT ~ FES8JT)

**FIG.1 - FORWARD CURRENT
DERATING CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS**

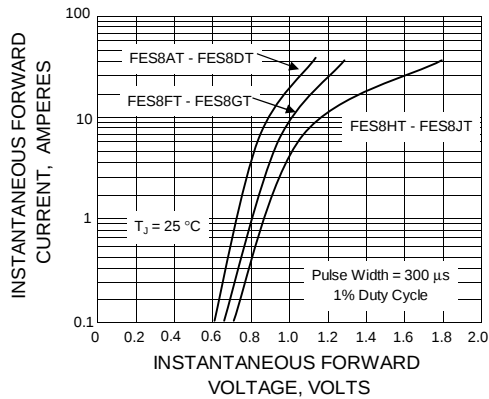


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

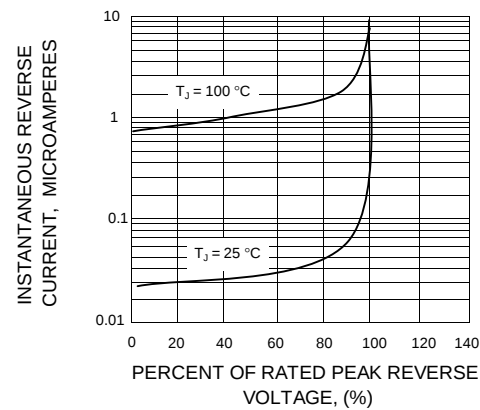


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

